

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 1581.0800000/RWE/M-G	APPLICATION NO. #5 09/831,050
	APPLICANT Shone et al.	
	FILING DATE November 5, 1999	GROUP 1647 To be assigned

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SLW	AA1	5,780,024	07/14/1998	Brown et al.	424	94.4	06/21/1996
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SLW	AL1	WO 00/28041	05/18/2000	WIPO	—	—	— Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
SLW	AR	<u>1</u>	Bowler, C. et al., "Characterization of the <i>Bacillus stearothermophilus</i> Manganese Superoxide Dismutase Gene and Its Ability to Complement Copper/Zinc Superoxide Dismutase Deficiency in <i>Saccharomyces cerevisiae</i> ," <i>Journal of Bacteriology</i> 172:1539-1546, American Society for Microbiology (1990).
SLW	AS	<u>1</u>	Brock, C.J. and Walker, J.E., "Superoxide Dismutase from <i>Bacillus stearothermophilus</i> . Complete Amino Acid Sequence of a Manganese Enzyme," <i>Biochemistry</i> 19:2873-2882, American Chemical Society (1980).
SLW	AT	<u>1</u>	Chambers, S.P. et al., "Physical characterization and over-expression of the <i>Bacillus caldotenax</i> superoxide dismutase gene," <i>FEMS Microbiol. Lett.</i> 91:277-284, Elsevier Science Publishers B.V. (1992).
EXAMINER	Sandra Weger		DATE CONSIDERED 7/22/03

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
SLW	AR	2	Cuevas, P. et al., "Ischemic Reperfusion Injury in Rabbit Spinal Cord: Protective Effect of Superoxide Dismutase on Neurological Recovery and Spinal Infarction," Acta. Anat. 137:303-310, Karger AG, Basel (1990).
SLW	AS	2	de Paiva, A. and Dolly, J.O., "Light chain of botulinum neurotoxin is active in mammalian motor nerve terminals when delivered via liposomes," FEBS. Lett. 277:171-174, Elsevier Science Publishers B.V. (1990).
SLW	AT	2	Dolly, J.O. et al., "Acceptors for botulinum neurotoxin reside on motor nerve terminals and mediate its internalization," Nature 307:457-460, Macmillan Journals (1984).

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SLW	AR	3	Evans, D.M. <i>et al.</i> , "Botulinum neurotoxin type B. Its purification, radioiodination and interaction with rat-brain synaptosomal membranes," <i>Eur. J. Biochem.</i> 154:409-416, Springer International (1986).
SLW	AS	3	Figueiredo, D.M. <i>et al.</i> , "Delivery of recombinant tetanus-superoxide dismutase proteins to central nervous system neurons by retrograde axonal transport," <i>Exp. Neurol.</i> 145:546-554, Academic Press (1997).
SLW	AT	3	Francis, J.W. <i>et al.</i> , "Cu/Zn Superoxide Dismutase (SOD-1):Tetanus Toxin Fragment C Hybrid Protein for Targeted Delivery of SOD-1 to Neuronal Cells," <i>J. Biol. Chem.</i> 270:15434-15442, American Society for Biochemistry and Molecular Biology, Inc. (1995).

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SLW	AR	4	Francis, J.W. <i>et al.</i> , "Postischemic Infusion of Cu/Zn Superoxide Dismutase or SOD:Tet451 Reduces Cerebral Infarction Following Focal Ischemia/Reperfusion in Rats," <i>Exp. Neurol.</i> 146:435-443, Academic Press (1997).
SLW	AS	4	Fujii, J. <i>et al.</i> , "A Defect in the Mitochondrial Import of Mutant Mn-Superoxide Dismutase Produced in Sf21 Cells," <i>J. Biochem.</i> 124:340-346, Japanese Biochemical Society (1998).
SLW	AT	4	Keller, J.N. <i>et al.</i> , "Mitochondrial Manganese Superoxide Dismutase Prevents Neural Apoptosis and Reduces Ischemic Brain Injury: Suppression of Peroxynitrite Production, Lipid Peroxidation, and Mitochondrial Dysfunction," <i>J. Neurosci.</i> 18:687-697, Society for Neuroscience (1998).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
SLW	AR	<u>5</u>	L'Abbe, M.R. and Trick, K.D., "Changes in Pancreatic Glutathione Peroxidase and Superoxide Dismutase Activities in the Prediabetic Diabetes-Prone BB Rat," <i>Proc. Soc. Exp. Biol. Med.</i> 207:206-212, Society for Experimental Biology and Medicine (1994).
SLW	AS	<u>5</u>	Lebovitz, R.M. et al., "Neurodegeneration, myocardial injury, and perinatal death in mitochondrial superoxide dismutase-deficient mice," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 93:9782-9787, National Academy of Sciences (1996).
SLW	AT	<u>5</u>	Lim, K.H. et al., "Prevention of Reperfusion Injury of the Ischemic Spinal Cord: Use of Recombinant Superoxide Dismutase," <i>Ann. Thorac. Surg.</i> 42:282-286, Presented at the Thirty-Third Annual Meeting of the Southern Thoracic Surgical Association, October 30-November 1 (1986).

EXAMINER <i>Sandra Wiegert</i>	DATE CONSIDERED 7/22/03
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SLW	AR	6	Matsumiya, N. et al., "Conjugated Superoxide Dismutase Reduces Extent of Caudate Injury After Transient Focal Ischemia in Cats," <i>Stroke</i> 22:1193-1200, American Heart Association (1991).
SLW	AS	6	Mattson, M.P. et al., "Calcium, Free Radicals, and Excitotoxic Neuronal Death in Primary Cell Culture," in <i>Methods in Cell Biology</i> , Schwartz, L.M. and B.A. Osborne, eds., Academic Press, San Diego, CA, Vol.46, pp.187-216 (1995).
SLW	AT	6	McInnes, C. and Dolly, J.O., "Ca ²⁺ -dependent noradrenaline release from permeabilised PC12 cells is blocked by botulinum neurotoxin A or its light chain," <i>FEBS Lett.</i> 261:323-326, Elsevier Science Publishers B.V. (1990).

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SLW	AR	7	Musser, D.A. and Oseroff, A.R., "The Use Of Tetrazolium Salts To Determine Sites Of Damage To The Mitochondrial Electron Transport Chain In Intact Cells Following <i>In Vitro</i> Photodynamic Therapy With Photofrin II," <i>Photochem. Photobiol.</i> 59:621-626, American Society for Photobiology (1994).
SLW	AS	7	Nishida, T. <i>et al.</i> , "The serum level of manganese superoxide dismutase in patients with ovarian epithelial malignancy," <i>Oncol. Reports</i> 2:643-646, Current Science Inc. (1995).
SLW	AT	7	Prodromou, C. and Pearl, L.H., "Recursive PCR: a novel technique for total gene synthesis," <i>Protein Engineering</i> 5:827-829, Oxford University Press(1992).
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SLW	AR	8	Shone, C.C. <i>et al.</i> , "Inactivation of <i>Clostridium botulinum</i> type A neurotoxin by trypsin and purification of two tryptic fragments. Proteolytic action near the COOH-terminus of the heavy subunit destroys toxin-binding activity," <i>Eur. J. Biochem.</i> 151:75-82, Springer International (1985).
SLW	AS	8	Shone, C.C., "Understanding toxin action: <i>Clostridium botulinum</i> neurotoxins, their structures and modes of action," in <i>Natural Toxicants in Foods. Progress and Prospects</i> , Watson, D.H., eds., Ellis Horwood Ltd., Chichester, England, pp.11-43 (1986).
SLW	AT	8	Shone, C.C. <i>et al.</i> , "A 50-kDa fragment from the NH ₂ -terminus of the heavy subunit of <i>Clostridium botulinum</i> type A neurotoxin forms channels in lipid vesicles," <i>Eur. J. Biochem.</i> 167:175-180, Springer International (1987).

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SLW	AR	2	Shone, C.C. and Tranter, H.S., "Growth of Clostridia and Preparation of Their Neurotoxins," in <i>Clostridial Neurotoxins. The Molecular Pathogenesis of Tetanus and Botulism</i> , Montecucco, C., eds., Springer, Berlin, Germany, pp. 143-160 (1995).
SLW	AS	2	Smith, M.C. et al., "Chelating Peptide-immobilized Metal Ion Affinity Chromatography," <i>J. Biol. Chem.</i> 263:7211-7215, American Society for Biochemistry (1988).
SLW	AT	2	Studier, F.W. and Moffatt, B.A., "Use of Bacteriophage T7 RNA Polymerase to Direct Selective High-level Expression of Cloned Genes," <i>J. Mol. Biol.</i> 189:113-130, Academic Press (1986).

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